

## Review of Chapter 1

## 1.1 Simplifying Expressions

PEMDAS

## 1.2 Properties of Real Numbers

Commutative, Associative, Identity, Inverse, Distributive

Number sets

Additive and Multiplicative inverses

$$\begin{array}{l} \text{Sym} / f \quad 4+a=7 \\ \text{+ inv} \quad 7=4+a \\ \text{Comm} \quad 4+a=a+4 \end{array}$$

$$\frac{5}{7} + \left(-\frac{5}{7}\right) = 0 \quad \frac{5}{7} \left(\frac{7}{5}\right) = 1$$

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## 1.3 More Properties

Reflexive, Symmetric, Transitive,  
Substitution, +, -, multiplication, division

Solving equations

Word Problems

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## 1.4 Absolute value

Check

True-All Reals

False-No solution

$$\begin{array}{l} * |x+1| = 7x \\ x+1 = 7x \quad x+1 = -7x \end{array}$$

## 1.5 Inequalities

 $(-\infty, 3]$ 

Interval Notation

Set Builder Notation

(open) [closed]

$$\{x | x \leq 3\}$$

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## 1.6 Compound Inequalities

And/Or

Compound Absolute Value and Double Absolute value

Inequality Word

At most

At least

In between

$$\begin{array}{l} \leq \\ \geq \\ < x < \end{array}$$

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Review  
p.48-50 #s 11-17odd, 18-23, 25-33odd, 35-37, 40-50even  
p.51 13-18, 31, 32

Collected  
tomorrow

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